

CLAIMS

1. A method for treating fluids, particularly
5 wastewater, combining steps of
coagulation/flocculation, clarification by settling or
flotation, with a step of filtration on micro-, ultra-,
nano- or hyperfiltration membranes, characterized in
10 that it comprises a double injection of one or more
coagulation reagents, respectively 75.0 to 125% of the
optimal coagulation dose or dose cancelling the zeta
potential (pZ), in a zone located upstream of the
clarification step, and 0.1 to 25.0% of the optimal
15 dose cancelling the pZ, in a second zone located
upstream of the membrane filtration step.

2. The method as claimed in claim 1, characterized
in that each coagulation zone is supplied via one or
more injection points.

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3. The method as claimed in either of the
preceding claims, characterized in that the injection
of one or more coagulation reagents is respectively
75.0 to 99.9%, preferably 80.0 to 99.9% upstream of the
25 clarification/flocculation step, and 0.1 to 20.0%
upstream of the membrane filtration step.

4. The method as claimed in either of claims 1 and
2, characterized in that the injection of one or more
30 coagulation reagents is respectively 90.0 to 99.9%
upstream of the clarification step and 0.1 to 10%
upstream of the membrane filtration step.

5. The method as claimed in any one of the
35 preceding claims, characterized in that the coagulation
reagents consist of a mixture of coagulation reagents.

6. The method as claimed in any one of the
preceding claims, characterized in that the coagulation

reagent(s) injected upstream of the clarification step are different to the coagulation reagent(s) injected upstream of the membrane filtration step.

- 5 7. The method as claimed in any one of the preceding claims, characterized in that the coagulation conditions, particularly the pH, are different for the two coagulation steps.
- 10 8. The method as claimed in claim 7, characterized in that said coagulation conditions imply a pH correction upstream of one or of both coagulation steps.
- 15 9. The method as claimed in any one of the preceding claims, characterized in that the membrane wash waters are recirculated upstream of the clarification step.